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SEA-SEE CHARACTERISTICS AND MISSION APPLICATIONS(U)
NAVAL OCEAN SYSTEMS CENTER SAN DIEGO CA
W W PERKINS ET AL. MAR 84 NOSC/TD-652

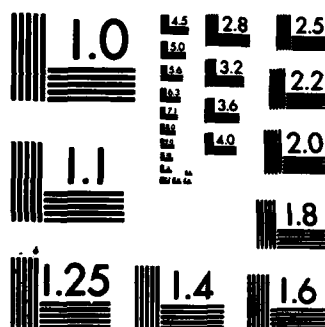
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SEA-SEE

Characteristics and Mission Applications

W. W. Perkins
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March 1984
Final Report

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NAVAL OCEAN SYSTEMS CENTER
San Diego, California 92152

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NAVAL OCEAN SYSTEMS CENTER SAN DIEGO, CA 92152

AN ACTIVITY OF THE NAVAL MATERIAL COMMAND

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ADMINISTRATIVE INFORMATION

This document was prepared by the Naval Ocean Systems Center, Code 013, San Diego, CA 92152.

The information provided is in response to Public Law 96-480, Sec II, Part (a) - "It is the continuing responsibility of the Federal Government to ensure the full use of the results of the Nation's Federal investment in research and development. To this end the Federal Government shall strive where appropriate to transfer federally owned or originated technology to State and local governments and to the private sector."

Released by
E. P. Cooper, Director for
Science and Technology

PK



SEA-SEE
POTENTIAL MISSION APPLICATIONS

OPERATIONAL CAPABILITIES

Marine mammal investigation
Shark studies
Kelp bed investigation
Shallow water artificial reef investigation
Acoustic studies
Support for diving operations

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GENERAL CHARACTERISTICS

DESCRIPTION

The Sea-See is a catamaran hull type craft outfitted with an underwater observation compartment. The craft is designed for operations in Southern California water. It is capable of fully self-contained support for periods of one week or longer. With the observation compartment extended, the vessel is capable of maintaining 3 knots and serves as an excellent platform for the investigation and research of marine mammals, sharks, and near surface ecology. In addition, the fiberglass hull provides an ideal platform for acoustic studies.

General

Hull	Catamaran type, styrofoam hull
Length	50 ft
Beam	20 ft
Power	Two GMC 353-N diesel engines
Draft	3.5 ft with observation capsule up; 10 ft with observation capsule down
Speed	7.5 knots with observation capsule up; 3 knots with observation capsule down
Range	300 miles
Electronic Equipment	Sonar Corp. Model 115 marine radiotele- phone Raytheon ADF Regency-Polaris N72 all marine band ADF Raytheon Model D-120m depth indicator, 250-ft maximum Raytheon Model 2800 radar Motorola 35-watt UHF FM transmitter- receiver Motorola 15-watt UHF FM transmitter- receiver portable ARC/27 UHF Mil radio 200-300 MHz Loran C, M, L 320 Navigator Wood Free- man autopilot

Binaural hydrophone array and system
frequency range, flat ± 3 dB, 20 Hz to
100 kHz

Lockheed Model 417 instrumentation tape
recorder-reproducer, seven-channel
direct record-reproduce, frequency
response ± 3 dB, 200 Hz to 100 kHz at
30 in/sec

Electrical Power 12-volt and 24-volt DC, 130 amps

Diesel 110-115 volt AC, 60-cycle, 10,
Onan 5 kW motor generator

CML Model MRS 500 24-volt DC to 110-115
AC inverter (500 watts)

Accessories Electric anchor winch

Four transducer underwater pass-through
in observation capsule

13 ft 6 in. Boston Whaler, 20 hp John-
son outboard motor

Zodiac inflatable boat

Instrumentation console

Hyab crane 3300 max lift - 1054 lb, at
max. extension 14 ft 9 in.

Programmable gift Model 4000T precision
depth recorder

500 watt inverter

Personnel Four scientists, two crew, observation
capsule seats two

Sleeping accommodations are provided
for the crew and two scientists with a
galley, head for hotel services

Photographic capability, still and
motion picture

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